

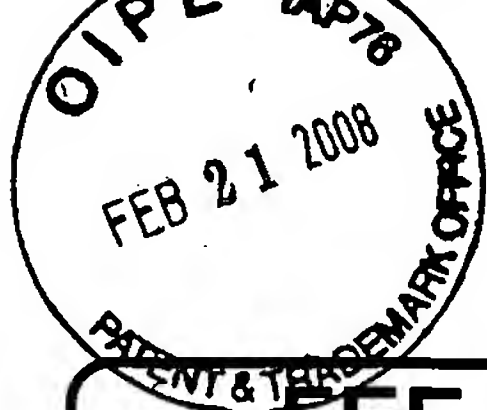
JPW

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application No.	10/540,374
		Filing Date	June 22, 2005
		First Named Inventor	Gianni Mochi
		Art Unit	Unassigned
		Examiner Name	Unassigned
Total Number of Pages in This Submission	78	Attorney Docket Number	6097P066

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment / Reply  <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> PTO/SB/08  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/Incomplete Application  <input type="checkbox"/> Basic Filing Fee <input type="checkbox"/> Declaration/POA  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s)  <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">Declaration of Michael Mallie (5); Copies of emails (61); Renewed Petition (4); Copy of petition (4); return postcard (1)</div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Michael J. Mallie, Reg. No. 36,591 <b>BLAKELY, SOKOLOFF, TAYLOR &amp; ZAFMAN LLP</b>
Signature	
Date	February 19, 2008

CERTIFICATE OF MAILING/TRANSMISSION			
I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.			
Typed or printed name	Joyce Klein		
Signature		Date	February 19, 2008



# FEE TRANSMITTAL for FY 2007

Patent fees are subject to annual revision.

Complete if Known

Application Number	10/540,374
Filing Date	June 22, 2005
First Named Inventor	Gianni Mochi
Examiner Name	Unassigned
Art Unit	Unassigned
Attorney Docket No.	6097P066

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$)

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_  
☒ Deposit Account Deposit Account Number: 02-2666 Deposit Account Name: Blakely, Sokoloff, Taylor & Zafman LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20. ☒ Credit any overpayments

## FEE CALCULATION

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
2053	130	2053	130	Non-English specification	
1251	120	2251	60	Extension for reply within first month	
1252	460	2252	230	Extension for reply within second month	
1253	1,050	2253	525	Extension for reply within third month	
1254	1,640	2254	820	Extension for reply within fourth month	
1255	2,230	2255	1,115	Extension for reply within fifth month	
1401	510	2401	255	Notice of Appeal	
1402	510	2402	255	Filing a brief in support of an appeal	
1403	1,030	2403	515	Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
1809	810	1809	405	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	810	2810	405	For each additional invention to be examined (37 CFR § 1.129(b))	
Other fee (specify) _____					
SUBTOTAL (2)				(\$)	

## SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Michael J. Mallie	Registration No. (Attorney/Agent)	36,591	Telephone	(408) 720-8300
Signature		Date	02/19/08		

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Gianni Mochi et al	)	
	)	
Serial No.: 10/540,374	)	Examiner: Unassigned
	)	
Filed: 06/22/2005	)	Art Unit: Unassigned
	)	
For: SYSTEM FOR ESTIMATION AND	)	
CONTROL OF THE CONCENTRATIONS OF	)	
POLLUTANT GASES AT THE DISCHARGE OF	)	
A GAS TURBINE	)	Confirmation No.: 2576
	)	

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Mail Stop PCT  
Atten: Office of PCT Legal Administration  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

RENEWED PETITION UNDER 37 C.F.R. 1.137(b)

Dear Sir:

Applicant hereby renews the petition to revive the above-noted abandoned application.

The entire delay in filing the required reply from the due date for the reply until the filing of grantable petition pursuant to 37 C.F.R. 1.137(b)(3) was unintentional. The Petition Decision, mailed Dec. 18, 2007, indicated that the previously submitted petition, filed October 19, 2007, fails to satisfy 37 C.F.R. 1.137(b)(3), and that since no petition under 37 C.F.R. 1.137(b) was filed within one year of the date of abandonment, there is a question whether the delay was unintentional. Where there is a question whether the delay was unintentional, the petitioner must meet the burden of establishing that the delay was unintentional within the meaning of 35 U.S.C. §41(a)(7) and 37 C.F.R. 1.137(b). The Petition Decision requested that, in addition to the statement that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 C.F.R. 1.137(b) was unintentional, the petitioner must provide a showing as to: (1) the date that applicants (or applicant's representative) first became aware of the abandonment of the application; (2) how any delay between the abandonment and the applicant's (or applicants' representatives) discovery of the abandoned status of the application occurred; and (3) the cause of any delay between applicant's (or applicant's

representatives) discovery of the abandoned status of the application and the filing of a petition to revive.

Regarding (1), the petitioner respectfully submits that the petitioner first became aware of the possibility of abandonment of the application on February 6, 2007. Also, at this point GE had indicated that they were attempting to get all the signatures from the inventors. However, on February 7, 2007, GE indicated that we should correspond with the inventors with the addressed provided by GE to get the signatures. On March 13, 2007, per an email the petitioner sent to GE, the petitioner confirmed that the application had gone abandoned in a status report of the outstanding missing parts of the application, which indicated that we had received signatures for all the inventors, except for Luciano Bonciani, and that the last documents email to Luciano were sent on Feb. 5, 2007. At this point, we indicated to GE that we needed further instructions and information to revive the case. However, it should be noted that to date, the petitioner has not received a Notice of Abandonment from the Patent Office. As such, the petitioner recognized the possibility of abandonment based on the passage of time, not based on a Notice of abandonment from the Patent Office, at earliest on Feb. 6, 2007.

Regarding (2), as indicated in the Petition Decision, mailed Dec. 18, 2007, the application went abandoned at midnight Feb. 27, 2006. As set forth previously in the Petition under rule 1.137 and the attached declaration of Michael Mallie, mailed Oct. 19, 2007, GE and the petitioner had been attempting to get all the inventors' signatures to respond to the Notice of Missing Requirements, mailed Dec. 27, 2005. The petitioner received some, but not all of the inventors' signatures. On or around February 2007, the petitioner learned that the contact person at GE that was responsible for getting the signed declarations from the inventors (Patricia Yopez-Rutheny) had been out on maternity leave and was unable to help in obtaining the signed documents. After this discovery, GE attempted to contact Luciano to have him sign the declaration (Feb. 5, 2007). As noted above, it wasn't until Feb, 2007, that the petitioner discovered the possibility of abandonment due to the passage of time (not due to receipt of Notice of Abandonment). As such, the petitioner respectfully submits that the entire delay between the abandonment and petitioner's discovery of the abandoned status was unintentional.

Regarding (3), petitioner respectfully submits, as noted by the Petition Decision, mailed Dec. 18, 2007, that in order to have a grantable petition, the petition must include (1) the required reply, unless previously filed. In this case, the required reply would be to file a signed declaration of all the inventors, and/or the signed declaration of the signing inventors and a

Petition for any non-signing inventor under 37 C.F.R. 1.47 for unavailability of inventor or the inventor refusing to sign. As such, in order to file a petition under 37 C.F.R. 1.137(b), additional information to support a petition under rule 1.47, such as information regarding the availability of the inventor and/or the inventors refusal to sign, needed to be obtained before filing a petition under rule 1.137(b). That is, in order to meet the requirements under 1.137(b), the information to support a petition under rule 1.47, first needed to be collected. Up until Feb. 2007, GE had been responsible for obtaining signatures for the declaration, but after Feb. 2007, the petitioner was instructed to attempt to obtain the required missing signatures. In order to obtain the necessary documentation to support a rule 1.47 petition, the petitioner sent a package to Luciano Bonciani at his last known address to obtain his signature on the declaration on May 23, 2007. Since no response had been received in response to this package, on August 24, 2007, the petitioner verified that FedEx had delivered the package. However, after August 24, 2007, it was discovered that the package sent to Luciano only included the declaration without a copy of the patent application. In response, on Oct. 5, 2007, another package was sent to Luciano at his last known address. Also, on Oct. 15, 2007, additional searches for the inventor were conducted to attempt to find a possible new address for the inventor. In response to the package sent on Oct. 5, 2007, Luciano finally executed the declaration on Oct. 11, 2007, and the petitioner filed the signed declaration on Nov. 30, 2007. As such, petitioner submits that the entire delay between discovery of the possibility of abandonment and filing of the petition under 1.137(b) was unintentional.

In response to the Office implications of the enclosed emails of August 16, 2006, and February 6, 2007 that the applicant deliberately choose to delay seeking the revival of an abandoned application, the petitioner respectfully submits that despite never receiving a notice of abandonment from the Patent Office, the petitioner, after discovery the possibility of abandonment in Feb. 2007, sought to obtain the information necessary to file a grantable petition, namely a signed declaration or information regarding unavailability or refusal of inventor to sign the declaration for the "required reply" to the Notice of Missing Requirements under 37 C.F.R. 1.137(b)(1). Although the petition under rule 1.47 became moot upon filing the signed declaration of the inventor (executed in Oct. 2007), the petitioner respectfully submits that diligent efforts were employed to obtain the necessary signature on the declaration and/or the necessary information to support diligent efforts to locate the inventor for obtaining the



signature. As such, the entire delay between the petitioner's discovery of the possible abandonment and the filing of the grantable petition was unintentional.

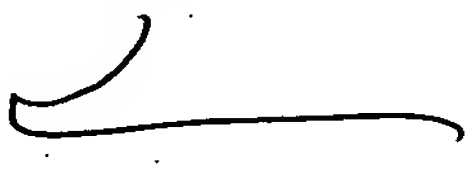
Accordingly, petitioner respectfully submits that the foregoing discussion and the enclosed declaration of proof of pertinent facts establish a showing as to items (1), (2), and (3), as requested by the Petition Decision, mailed Dec. 18, 2007. As such, Petitioner respectfully request that the renewed petition be granted.

Petitioner respectfully submits that no additional petition fee is required. Please charge any shortages or credit any overages to our Deposit Account No. 02-2666. A duplicate copy of this Petition is enclosed for deposit account charging purposes.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 4/19, 2008

  
\_\_\_\_\_  
Michael J. Mallie  
Reg. No. 36,591



UNITED STATES PATENT AND TRADEMARK OFFICE

18 DEC 2007

Commissioner for Patents  
United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

BLAKELY SOKOLOFF TAYLOR & ZAFMAN/PDC  
12400 WILSHIRE BOULEVARD  
SEVENTH FLOOR  
LOS ANGELES, CA 90025

In re Application of: :  
MOCHI, Gianni, et al. :  
U.S. Application No.: 10/540,374 :  
Int'l Application No: PCT/EP2003/014559 :  
Int'l Filing Date: 18 December 2003 :  
Priority Date: 23 December 2002 :  
Atty Docket No.: 6097P066 :  
For: SYSTEM FOR ESTIMATION AND :  
CONTROL OF CONCENTRATIONS OF :  
POLLUTANT GASES AT THE :  
DISCHARGE OF A GAS TURBINE :

DECISION ON PETITIONS  
UNDER 37 CFR 1.137(b) AND  
37 CFR 1.47(a)

RECEIVED

DEC 20 2007

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
LOS ANGELES

This decision is issued in response to the Petition for Revival under 37 CFR 1.137(b) filed 19 October 2007 and the "Petition For Filing By Other Than All The Inventors Under 37 CFR 1.47(a)" filed 19 October 2007 and supplemented on 30 November 2007. Applicants have paid the required petition fees.

**BACKGROUND**

On 18 December 2003, applicants filed international application PCT/EP2003/014559. The application claimed an earlier priority date of 23 December 2002 and it designated the United States. On 08 July 2004, the International Bureau (IB) communicated a copy of the international application to the United States Patent and Trademark Office (USPTO). The deadline for filing the basic national fee was thirty months from the priority date, i.e., 23 June 2005.

On 22 June 2005, applicants filed a Transmittal Letter requesting entry into the U.S. national stage, accompanied by, among other materials, payment of the basic national fee.

On 27 December 2005, the United States Designated/Elected Office (DO/EO/US) mailed a Notification Of Missing Requirements (Form PCT/DO/EO/905) indicating that an oath or declaration in compliance with 37 CFR 1.497 and the surcharge for filing the oath or declaration later than thirty months after the priority date were required. The Notification set forth an extendable two month response period.

Entered into FIP  
By: *me*

Applicants did not file a response to the Notification Of Missing Requirements during the extendable time period. Accordingly, this application became abandoned at midnight on 27 February 2006.

On 19 October 2007, applicants filed the Petition for Revival under 37 CFR 1.137(b) and the "Petition For Filing By Other Than All The Inventors Under 37 CFR 1.47(a)" considered herein. The petition under 37 CFR 1.47(a) seeks acceptance of the application without the signature of non-signing inventor Luciano BONCIANI, whom applicants assert cannot be located after diligent effort.

On 30 November 2007, applicants filed a supplement to the petition under 37 CFR 1.47(a) that included a declaration executed by the previously non-signing inventor.

### **DISCUSSION**

37 CFR 1.137(b) permits the filing of a petition to revive an abandoned application where the abandonment resulted from an unintentional delay. A grantable petition under this section must include: (1) the required reply, unless previously filed; (2) the petition fee required by law; (3) a statement that the "entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to this paragraph was unintentional;" and (4) any terminal disclaimer and fee required pursuant to 37 CFR 1.137(c). It is noted that item (4) does not apply to the present application.

With respect to item (1), the "required reply" in this application is a proper response to the Notification Of Missing Requirements mailed 27 December 2005, that is, an acceptable oath or declaration and the required surcharge payment. Applicants' 19 October 2007 submission included the surcharge payment, a declaration executed by four of the five inventors, and the petition under 37 CFR 1.47(a) requesting acceptance of the declaration without the signature of the remaining inventor. Applicants' supplemental submission filed 30 November 2007 included a declaration executed by the previously non-signing inventor. The 30 November 2007 submission renders the previously filed petition under 37 CFR 1.47(a) moot.

Based on the above, applicants have now submitted the required surcharge payment and a declaration executed by all the inventors. The declaration satisfies the requirements of 37 CFR 1.497. Accordingly, applicants have provided the "required reply." Item (1) is satisfied.

With respect to item (2), applicants have submitted the required petition fee. Item (2) is therefore satisfied.

The present petition fails, however, to satisfy item (3) above. The petition includes general statements that "the entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional" and that "[t]he delay in the reply by Applicant was unintentional." However, no petition under 37 CFR 1.137(b) was filed within one year of the date of abandonment of the present application; under such circumstances, there is a question whether the delay was unintentional. See MPEP section 711.03(c)(II)(D); see also *Changes to Patent Practice and Procedure; Final*



*Rule Notice*, 62 *Fed. Reg.* at 53158-59 (October 10, 1997), 1203 *Off. Gaz. Pat. Office* at 86-87 (October 21, 1997). Where there is a question whether the delay was unintentional, the petitioner must meet the burden of establishing that the delay was unintentional within the meaning of 35 U.S.C. § 41(a)(7) and 37 CFR 1.137(b). See *In re Application of G*, 11 USPQ2d 1378, 1380 (Comm'r Pats. 1989). As set forth in MPEP section 711.03(c)(II)(D), there are three periods of delay to consider in determining whether the entire delay from the due date for the required reply until the filing of a grantable petition for revival was unintentional: (A) the delay in reply that resulted in the original abandonment; (B) the delay in filing an initial petition for revival; and (C) the delay in filing a grantable petition for revival.

In addition to the fact that the petition was filed more than one year after the date of abandonment, there are specific items in the present record that raise questions as to whether the entire relevant delay herein was unintentional. For example, an attached email from counsel's assistant dated 16 August 2006 indicates that applicant was aware at that time of being "up against" the extendable deadline to respond to the Notification Of Missing Requirements, yet the petitions under 37 CFR 1.137(b) and 1.47(a) were not filed until more than one year later.<sup>1</sup> In addition, an attached email from counsel dated 06 February 2007 indicates that counsel was aware at such time that the present application was abandoned, and it states that counsel was waiting until receiving signed forms before filing a petition for revival. This email implies that the delay from at least 06 February 2007 until the filing of the petition for revival more than eight months later was deliberate (see MPEP section 711.03(c)(II)(D): "where the applicant deliberately chooses to delay seeking the revival of an abandoned application, the resulting delay in seeking revival of the abandoned application cannot be considered as 'unintentional' within the meaning of 37 CFR 1.137(b)").

In view of the above, there is a question here whether the delay in prosecution, as well as the delay in seeking revival, was unintentional. Therefore, in addition to the statement that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 CFR 1.137(b) was unintentional, applicants must provide a showing as to: (1) the date that applicants (or applicants' representative) first became aware of the abandonment of the application; (2) how any delay between the abandonment and applicants' (or applicants' representatives) discovery of the abandoned status of the application occurred; and (3) the cause of any delay between applicants' (or applicants' representatives) discovery of the abandoned status of the application and the filing of a petition to revive. See 37 CFR 1.137(b)(3).

Further, any renewed petition should include copies of any correspondence or communications between counsel and applicants and/or the assignee, which would rebut any inference that the filing of the petition to revive was intentionally delayed. This showing should include, but is not limited to, docket records, tickler reports, and file jacket entries for this application.

Based on the above, applicants have not, on the present record satisfied item (3) of a grantable petition for revival under 37 CFR 1.137(b). Accordingly, revival of the application is not appropriate at this time.

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<sup>1</sup> It is noted that the extendable response period had already expired at the time of this email.

**CONCLUSION**

The petition for revival under 37 CFR 1.137(b) is **DISMISSED** without prejudice.

The petition under 37 CFR 1.47(a) is **DISMISSED AS MOOT** based on applicants' submission of a declaration executed by the previously non-signing inventor.

If reconsideration on the merits of the petition for revival is desired, a proper response must be filed within **TWO (2) MONTHS** from the mail date of this decision. Any request for reconsideration should be entitled "Renewed Petition Under 37 CFR 1.137(b)" and it must include the materials required to satisfy the outstanding requirement of 37 CFR 1.137(b)(3), as discussed above and in the MPEP.

No additional petition fee is required. Extensions of time may be obtained under 37 CFR 1.136(a).

Any further correspondence with respect to this matter should be addressed to the Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, with the contents of the letter marked to the attention of the Office of PCT Legal Administration



Richard M. Ross  
Attorney Advisor  
Office of PCT Legal Administration  
Telephone: (571) 272-3296  
Facsimile: (571) 273-0459



Atty Docket No.: 6097P066

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Application of:

Gianni Mochi et al

Serial No.: 10/540,374

Filed: 06/22/2005

For: SYSTEM FOR ESTIMATION AND  
CONTROL OF THE CONCENTRATIONS OF  
POLLUTANT GASES AT THE DISCHARGE OF  
A GAS TURBINE

Examiner: Unassigned

Art Unit: Unassigned

Confirmation No.: 2576

Mail Stop Petition

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**DECLARATION**

Dear Sir:

I, Michael J. Mallie, having personal knowledge of the facts set forth herein, hereby declare and say as follows:

1. On April 5, 2006, GE counsel sent an email to the inventors, copying me on the email, indicating that on January 19, 2006 and March 7, 2006, emails were sent to all the inventors, attaching the declaration. The email sent on April 5, 2006 sent to all the inventors also attached the declaration. Documentation of this email is attached.
2. On April 6, 2006, Gianni Mochi sent an email to me, indicating that his signed documents were sent through mail some days ago. Documentation of this email is attached.
3. On April 14, 2006, I sent an email to inventors and GE to obtain the address for Laura Cassi because the address I had for her was invalid. In response to the emails sent on April 5, 2006 and April 14, 2006, I received a signed fax for the assignment on May 1, 2006. An email was sent to GE indicating the receipt of the fax including the assignment, and that she did not send a signed declaration. Documentation of this email is attached.

4. On May 3, 2006, I received a signed fax for the declaration from Laura Cassi. An email was sent to GE indicating the receipt of the signed declaration. The email indicated that I was still waiting for the following:  

Declaration – need Gianni Mochi, Luciano Bonciani, Gianni Ceccherini and Leonardi Rosi

Assignment – need Luciano Bonciani, Gianni Ceccherini and Leonardo Rosi

Documentation of this email is attached.
5. On May 04, 2006, Patricia Yepez-Rutheny of GE sent an email to Ernest Cusick to ask for help in obtaining inventor's signatures of the declaration.
6. On May 04, 2006, Ernest Cusick of GE sent an email to the inventors, requesting that the inventors sign the documents. Documentation of this email is attached.
7. On May 05, 2006, Gianni Ceccherini sent me an email, confirming that he sent by mail and attached to this email the signed copy of the Assignment and declaration today. Documentation of this email is attached.
8. On February 2, 2007, in response to learning that Patricia Yepez-Rutheny had been out on maternity leave and unable to help in obtaining the signed documents, I sent an email to Jim McGinness at GE, to obtain the status of the signed declaration from Luciano Bonciani and to verify his address. Documentation of this email is attached.
9. On February 5, 2007, in response to the email sent on February 2, 2007, GE sent an email to Luciano Bonciani, requesting the inventor to execute the declaration. No response to this email has been received from Luciano Bonciani.  
Documentation of this email is attached.
10. On February 6, 2007, in response to the email sent on February 5, 2007, GE sent another email, indicating that they thought that this matter had been resolved already and that they would follow up with the inventor on executing the declaration. The email also asked if I had filed a petition (1.47). Documentation of this email is attached.
11. On February 6, 2007, after investigating and finding out that the firm had not received a notice of abandonment for the case, I sent an email to GE to indicate that the application is currently abandoned because the inventor's refused to sign

the forms. I also indicated that once I get the signed forms of the inventors, I can seek to revive the case. Documentation of this email is attached.

12. On February 7, 2007, in response to the email sent on February 6, 2007, GE sent another email, requesting that I correspond with the inventors to get their signatures at the addressed provided by Sandra Gross-Thedieck. No response has been received in response to this email. Documentation of this email is attached.
13. On March 13, 2007, I sent an email to GE to indicate a status report for the outstanding missing parts of the application. The status report indicated that all the inventors' signatures were obtained except for Luciano Bonciani and that the formal documents were last emailed to Luciano on February 5, 2007. The email also noted that the case has gone abandoned and that I needed further instructions and information to revive. No response has been received for this email. Documentation of this email is attached.
14. On May 23, 2007, I sent a package that was delivered on May 25, 2007 at the last known address below, including the declaration to be signed:  

Luciano Donciani  
Via Pratese  
85/4, I-50145, Firenze, Italy

No response had been received from Luciano in response to the package.
15. On August 24, 2007, I verified that FedEx had delivered the package and that I had not received any documentation back from Luciano. Documentation of this email is attached.
16. After August 24, 2007, it was discovered that the package sent to Luciano only included the declaration without a copy of the patent application.
17. On October 5, 2007, I sent a letter to Luciano Bonciani to the address below, requesting the inventor to execute the declaration for the enclosed patent application. The letter requested that he return the signed documents by October 12, 2007. The letter and enclosed documents were delivered on October 8, 2007, and were signed by M. Giorgi. No response to this letter has been received from Luciano Bonciani. Documentation of the letter and enclosed documents, and the FedEx tracking are attached.



Luciano Bonciani

Via Pratese

85/4, I-50145, Firenze, Italy


18. On October 15, 2007, I conducted an internet search for “Luciano Bonciani” on <http://www.google.com>, resulting in 5 hits. None of the hits included any updated contact information for Luciano Bonciani. The search can be repeated using the following hyperlink address:  
<http://www.google.com/search?num=100&hl=en&q=%22Luciano+Bonciani%22+OR+%22Bonciani+Luciano%22+AND+Italy&btnG=Search>. Documentation of this internet search is attached.
19. On October 15, 2007, I conducted an internet search for “Luciano Bonciani” on <http://www.numberway.com>, which includes links to international phone directories. Documentation of this site is attached.
20. On October 15, 2007, I conducted an internet search for “Luciano Bonciani” on Italy Phone Book link, entitled “Pagine Bianche” at <http://www.paginebianche.it/index.html>, resulting in no entries found for Luciano Bonciani. Documentation of this internet search is attached.
21. On October 15, 2007, I conducted an internet search for “Luciano Bonciani” on Italy Phone Book link, entitled “Pagine Bianche” at <http://www.pronto.it/elenco/query.php>, resulting in no entries found for Luciano Bonciani. I conducted a search for “Luciano Bonciani” in the “Cognome o Azienda” field, a search for “Luciano Bonciani” in the “Nome” field, and a search for “Bociani” in the “Nome” field and Firenze in the “Localita” field. Documentation of this internet searches are attached.
22. To this date of this renewed petition, no notice of abandonment from the Patent Office has been received on the present application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on the information and belief are believed to be true; and further that all these statements were made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, LLP

Dated: 4/17/08



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Michael J. Mallie  
Reg. No. 36,591

1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040  
(408) 720-8300

**Joyce Klein**

---

**To:** Yepez-Rutheny, Patricia (Corporate, consultant)

**Subject:** GE 6097.P066 (134645)

Hi Patricia,

Attached please find the corrected assignment reflecting the change to Nuovo Pignone. The Missing Parts of the application are due on February 27, 2006.

Thank you,

Joyce Klein  
Assistant to Michael Mallie

1/17/2006

# BLAKELY SOKOLOFF TAYLOR & ZAFMAN

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October 5, 2007

Luciano Bonciani  
Via Pratese  
85/4, I-50145, Firenze, Italy

Re: General Electric Power Systems  
U.S. Patent Application No. 10/540,374  
Title: System for Estimation and Control of the Concentrations of  
Pollutant Gases at the Discharge of a Gas Turbine  
Filed: June 22, 2005  
Our Reference Number: 6097.P066  
GE Reference Number: 134645

Dear Mr. Bonciani:

Enclosed for your review is a copy of the above referenced patent application as filed with the Patent and Trademark Office of the United States of America. Please sign and date both the Declaration/Power of Attorney form and the Assignment form where indicated. Notarization of the Assignment is not required.


Please return the signed document directly to me via mail by **October 12, 2007**. We have enclosed a return envelope for your convenience.

Please keep in mind that, until the patent issues, you have a continuing duty to disclose to the Patent and Trademark Office any information that you are aware of that is material to the patentability of the patent application. Such information is material when there is a substantial likelihood that a reasonable patent examiner would consider it important in deciding to allow the application to issue as a patent. For example, if you are aware of any commercial products, patents, articles, datasheets, or other types of publications bearing on your invention, please bring them to our attention.

Also, please keep in mind that the patent application is confidential.

If you have any questions, please do not hesitate to contact me via email at [michael\\_mallie@bstz.com](mailto:michael_mallie@bstz.com).

Respectfully,  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

  
Joyce Klein for  
Michael J. Mallie

/jmk

**COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if several names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SYSTEM FOR ESTIMATION AND CONTROL OF THE CONCENTRATIONS OF  
POLLUTANT GASES AT THE DISCHARGE OF A GAS TURBINE**

the specification of which was filed on June 22, 2005  
as Application Serial No. 10/540,374

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119 (a)-(d) or (f) or 365(b) of any foreign application(s) for patent or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below, and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

COUNTR Y	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED?	CERTIFIED COPY ATTACHED
Italy	MI2002A002752	23 December 2002	Yes	<input type="checkbox"/> Yes   x   No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or 365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56



which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. PARENT APPLICATION OR PCT PARENT NUMBER	PARENT FILING DATE (day, month, year)	STATUS (patent and number, pending, abandoned)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

APPLICATION NUMBER(S)	FILING DATE (day, month, year)

As a named inventor, I hereby appoint the patent practitioners associated with the Customer Number **08791** as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark office connected herewith.

If this patent application is assigned, then the undersigned hereby authorized the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.

I hereby direct that all correspondence and telephone calls in connection with this application be addressed to

**Customer Number 08791 (Blakely, Sokoloff, Taylor & Zafman LLP).**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, statements were made with the knowledge that willfully false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that all such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Gianni MOCHI

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Italy

Citizenship: Italy

Post Office Address: Via Antonio Canova 77, I-50142, Firenze, Italy

Full name of second inventor: Laura CASSI

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Italy

Citizenship: Italy

Post Office Address: Via Vejentana 37, 00189, Roma, Italy

Full name of third inventor: Luciano BONCIANI

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Italy

Citizenship: Italy

Post Office Address: Via Pratese 85/4, I50145, Firenze, Italy

Full name of fourth inventor: Gianni CECCHERINI

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Italy

Citizenship: Italy

Post Office Address: Via 2 Giugno 82, I50019, Sesto Fiorentino, Italy

Full name of fifth inventor: Leonardo ROSI

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Italy

Citizenship: Italy

Post Office Address: Via Assisi 23, I-06080 S. Egidio, Italy

## ASSIGNMENT

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we,

Gianni MOCHI of Via Antonio Canova 77, I-50142, Firenze, Italy  
Laura CASSI of Via Niccolo da Tolentino 42, I-50141, Firenze, Italy  
Luciano BONCIANI of Via Pratese 85/4, I50145, Firenze, Italy  
Gianni CECCHERINI of Via 2 Giugno 82, I50019, Sesto Fiorentino, Italy  
Leonardo ROSI of Via Assisi 23, I-06080 S. Egidio, Italy

hereby sell and assign to NUOVO PIGNONE HOLDING S.P.A, an Italian Corporation, having an address at Via F. Matteucci, 2, I-50127 Firenze, Italy, (hereinafter referred to as "Company"), its successors and assigns my (our) entire respective right(s), title(s) and interest(s) in and to the invention and improvements invented and originated by me/us and described in the application for United States Patent currently entitled

SYSTEM FOR ESTIMATION AND CONTROL OF THE CONCENTRATIONS OF  
POLLUTANT GASES AT THE DISCHARGE OF A GAS TURBINE  
filed on June 22, 2005 having Serial No. 10/540,374

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, I/we will communicate to said Company or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees

to obtain and enforce proper patent protection for said invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from the German Law on Employee Inventions (LEI) remain unaffected by this assignment.

Inventor 1

\_\_\_\_\_ Date: \_\_\_\_\_  
*Gianni MOCHI*

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Inventor 2

\_\_\_\_\_ Date: \_\_\_\_\_  
*Laura CASSI*

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Inventor 3

\_\_\_\_\_  
*Luciano BONCIANI* Date: \_\_\_\_\_

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Inventor 4

\_\_\_\_\_  
*Gianni CECCHERINI* Date: \_\_\_\_\_

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness



Inventor 5

\_\_\_\_\_ Date: \_\_\_\_\_  
*Leonardo ROSI*

Witnessed by: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Date: \_\_\_\_\_

Witnessed by: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Date: \_\_\_\_\_

From: Origin ID: COAA (408) 720-8300  
Angela Quinn  
BLAKELY, SOKOLOFF, TAYLOR & ZA  
1279 OAKMEAD PARKWAY

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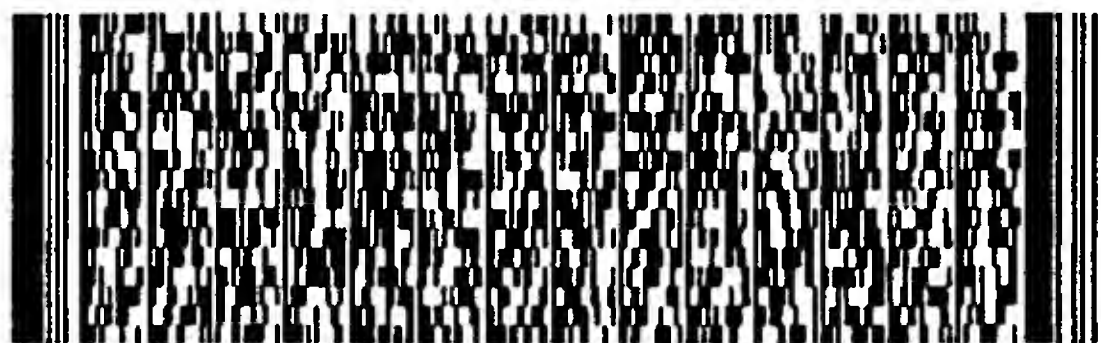
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General Electric Power System  
Via Pratese 85/4

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COUNTRY MFG: US  
CARRIAGE VALUE: 1.00 USD  
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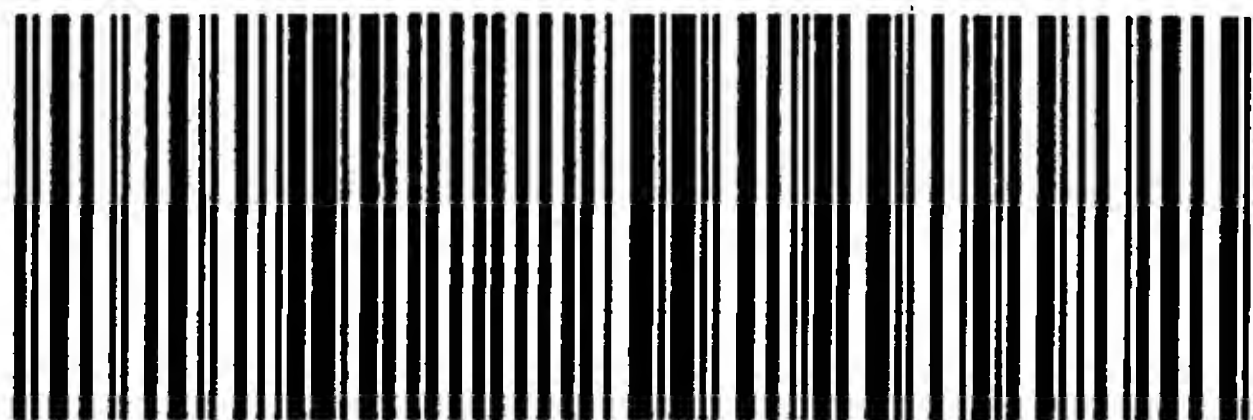
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E-mail: Joyce\_Klein@bstz.com

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Angela Quinn of BLAKELY, SOKOLOFF, TAYLOR & ZA sent Luciano Bonciani of General Electric Power System 1 FedEx International Priority package(s).

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This tracking update has been requested by:

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Reference: 06097.P066  
Ship (P/U) date: Oct 5, 2007  
Delivery date: Oct 8, 2007 11:05 AM  
Sign for by: M.GIORGI  
Delivered to: Residence  
Service type: FedEx International Priority  
Packaging type: FedEx Pak  
Number of pieces: 1  
Weight: 1.00 lb.  
Special handling/Services: Residential Delivery  
Deliver Weekday

Tracking number: 799729459750

Shipper Information	Recipient Information
ANGELA QUINN	LUCIANO BONCIANI
BLAKELY, SOKOLOFF, TAYLOR ZA	GENERAL ELECTRIC POWER SYSTEM
1279 OAKMEAD PARKWAY	VIA PRATESE 85/4
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10/8/2007

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Tracking number	799729459750	Reference	06097.P066
Signed for by	M.GIORGI	Destination	FIRENZE IT
Ship date	Oct 5, 2007	Delivered to	Residence
Delivery date	Oct 8, 2007 11:05 AM	Service type	Priority Pak
		Weight	1.0 lbs.

Status Delivered

Signature image available Yes

Date/Time	Activity	Location	Details
Oct 8, 2007	11:05 AM Delivered	FIRENZE IT	
	8:13 AM On FedEx vehicle for delivery	PRATO IT	
	7:28 AM At local FedEx facility	PRATO IT	
Oct 7, 2007	2:00 PM In transit	MALPENSA IT	
	2:00 PM Int'l shipment release	MALPENSA IT	
	7:07 AM In transit	MALPENSA IT	Package available for clearance
Oct 6, 2007	11:55 PM In transit	PARIS FR	
	2:34 AM Departed FedEx location	MEMPHIS, TN	
	12:58 AM Arrived at FedEx location	MEMPHIS, TN	
Oct 5, 2007	6:18 PM Left origin	SUNNYVALE, CA	
	5:38 PM Picked up	SUNNYVALE, CA	
	2:52 PM Package data transmitted to FedEx		

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October 15, 2007

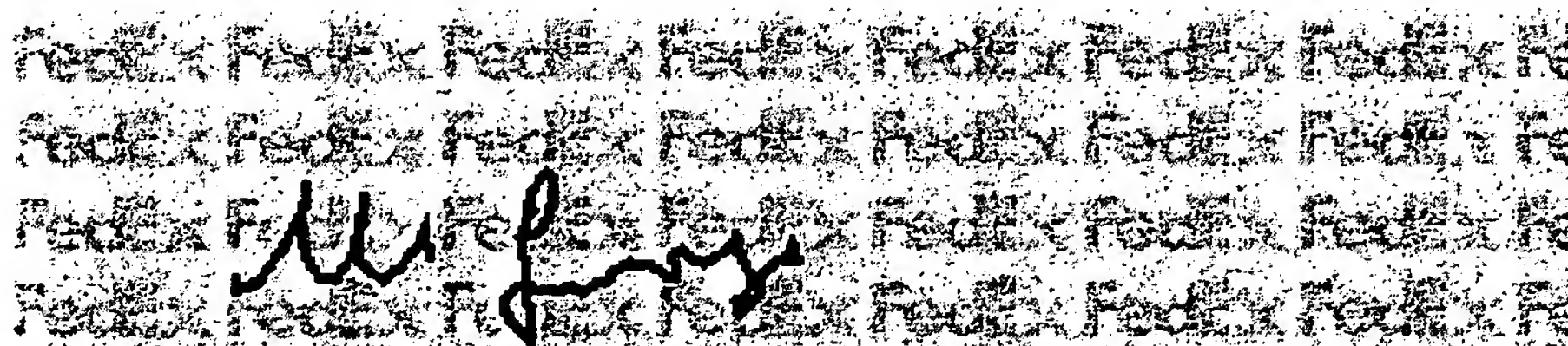
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<b>Service type:</b>	Priority Pak		



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**Shipping Information:**

<b>Tracking number:</b>	799729459750	<b>Ship date:</b>	Oct 5, 2007
		<b>Weight:</b>	1.0 lbs.

**Recipient:**  
LUCIANO BONCIANI  
GENERAL ELECTRIC POWER SYSTEM  
VIA PRATESE 85/4  
FIRENZE 50145 IT

**Reference**

**Shipper:**  
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CIPO - Patent - 2414034

(72) Inventors (Country):, MODI, ROBERTO (Italy) **BONCIANI, LUCIANO (Italy)**  
**CECCHERINI, GIANNI (Italy)**. (73) Owners (Country):, NUOVO PIGNONE HOLDING  
S.P.A. ...

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**CECCHERINI, GIANNI (Italy) BONCIANI, LUCIANO (Italy)**. (73) Owners (Country):,  
**NUOVO PIGNONE HOLDING S.P.A. (Italy)**. (71) Applicants (Country):, NUOVO ...

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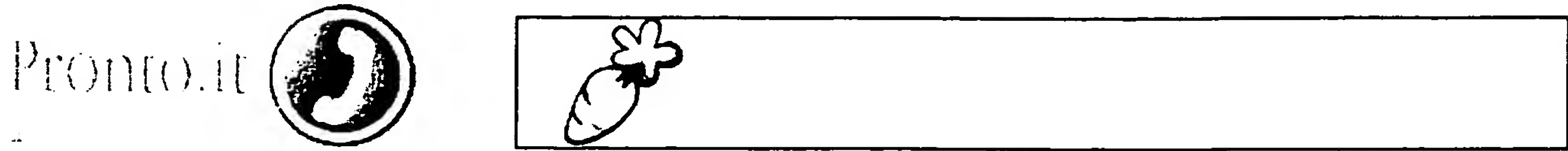
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-----Original Message-----

**From:** Manetta, Stephen J. (GE Infra, Oil & Gas)

**Sent:** Tuesday, February 06, 2007 3:36 AM

**To:** McGinness, Jim E (GE Infra, Energy)

**Cc:** 'michael\_mallie@bstz.com'; McIlwrath, Michael (GE Infra, Oil & Gas); 'Joyce\_Klein@bstz.com';  
Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE)

**Subject:** RE: GE Missing Parts

1/29/2008

Jim,

I am the Patent Counsel for O&G so I can work with Blakeley on prosecution. I had received an email about this back in September and thought it had been resolved. I will follow up with the inventor on it. What date is 2/27? I thought the term to respond to the Missing Parts expired in 06. Did we file a petition (1.47)?

Thanks,  
Steve

**Stephen Manetta**  
*Senior Counsel- Intellectual Property*

**GE Oil & Gas**  
+39 055 423 3753 (Office)  
+39 347 2112662 (Cell)  
+39 055 423 2960 (Fax)

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**Joyce Klein**

**From:** Michael Mallie  
**Sent:** Tuesday, February 06, 2007 2:33 PM  
**To:** 'Manetta, Stephen J. (GE Infra, Oil & Gas)'; McGinness, Jim E (GE Infra, Energy)  
**Cc:** Mcllwraith, Michael (GE Infra, Oil & Gas); Joyce Klein; Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE)  
**Subject:** RE: GE Missing Parts

Steve,  
The application is currently abandoned because the inventor's refused to sign the forms. Once we get the signed forms, we will seek to revive the case.

Mike

1/29/2008

**From:** McGinness, Jim E (GE Infra, Energy) [mailto:jim.mcginness@ge.com]  
**Sent:** Wednesday, February 07, 2007 5:53 AM  
**To:** Joyce Klein; Rieken, Stefan (GE Infra, Energy)  
**Cc:** Michael Mallie  
**Subject:** RE: 133330 Switching off wind turbine during helicopter approach

Joyce,  
Please correspond with the inventors with the addresses provided by Sandra Gross-Thedieck to get the signatures. If you have difficulty let us know and possibly Stefan may help if the inventors are not cooperating.  
Jim

-----Original Message-----

**From:** Gross-Thedieck, Sandra (GE Infra, Energy, Non-GE)  
**Sent:** Wednesday, February 07, 2007 8:20 AM  
**To:** McGinness, Jim E (GE Infra, Energy); 'Joyce Klein'; Altenschulte, Markus (GE Infra, Energy); Rieken, Stefan (GE Infra, Energy); Hoffmann, Philip J (GE, Corporate)  
**Cc:** 'Michael Mallie'  
**Subject:** RE: 133330 Switching off wind turbine during helicopter approach

done

1/29/2008

**Joyce Klein**

**From:** Joyce Klein  
**Sent:** Tuesday, March 13, 2007 1:22 PM  
**To:** McGinness, Jim E (GE Infra, Energy)  
**Cc:** Michael Mallie  
**Subject:** GE application status

Dear Jim,

Below is a status report for the outstanding missing parts of the applications:

134645 (6097.P066) System for Estimation and Control of the Concentrations of Pollutant Gases at the Discharge of a Gas Turbine

- We have all inventors signature except for Luciano Bonciani.
- Documents were last emailed to Luciano on February 5, 2007.

***Note: Case has gone abandoned and will need further instructions and information to revive.***



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May 23, 2007

Luciano Bonciani  
Via Pratese  
85/4, I-50145, Firenze, Italy


Re: General Electric Power Systems  
U.S. Patent Application No. 10/540,374  
Title: System for Estimation and Control of the Concentrations of  
Pollutant Gases at the Discharge of a Gas Turbine  
Filed: June 22, 2005  
Our Reference Number: 006097.P066  
GE Reference Number: 134645

Dear Mr. Bonciani:

Enclosed please find the Declaration/Power of Attorney and Assignment forms for your signature. Please return them to me via Express Mail (envelope enclosed) in order to file the forms with the U.S. Patent and Trademark Office (PTO).

If you have any questions or comments, please do not hesitate to contact me via email at [michael\\_mallie@bstz.com](mailto:michael_mallie@bstz.com).

Respectfully,  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP



Michael J. Mallie

MJM/kep  
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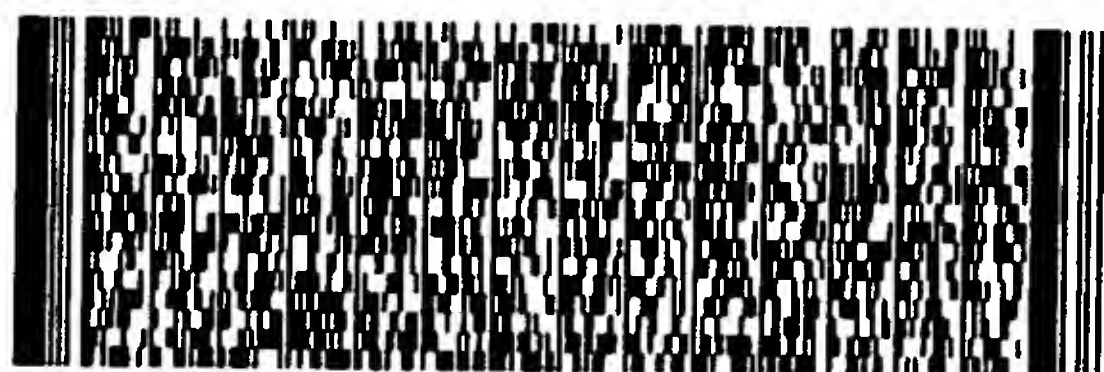


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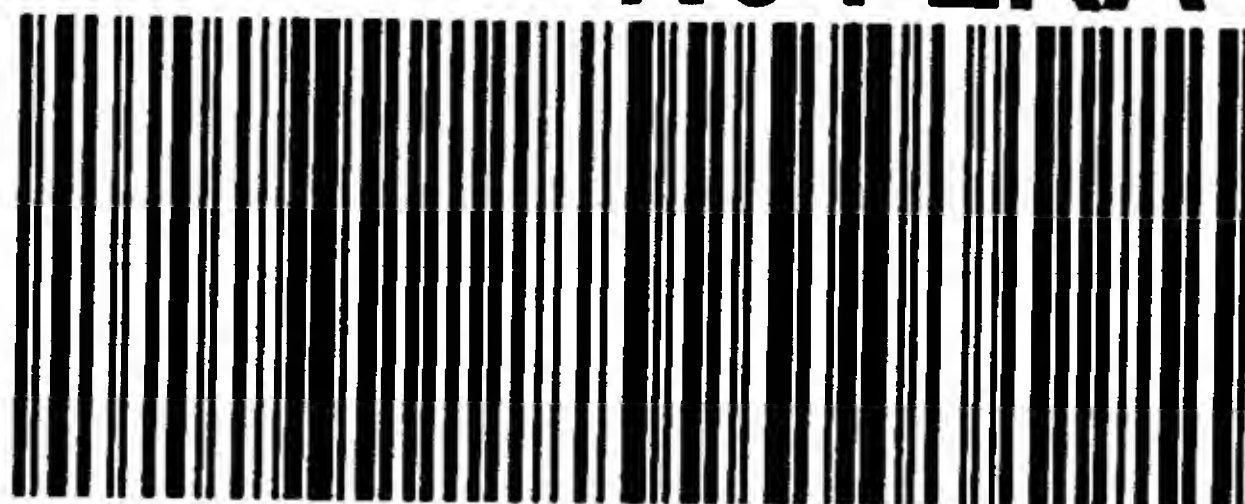
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**Joyce Klein**

**From:** Joyce Klein  
**Sent:** Friday, August 24, 2007 12:51 PM  
**To:** Kevin Grange  
**Subject:** RE: Re: GE Power P066

No date to respond.

**From:** Kevin Grange  
**Sent:** Friday, August 24, 2007 11:47 AM  
**To:** Joyce Klein  
**Subject:** RE: Re: GE Power P066

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Best regards,

Kevin O. Grange  
Blakely, Sokoloff, Taylor & Zafman LLP  
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(10) International Publication Number  
**WO 2004/057164 A1**

(51) International Patent Classification<sup>7</sup>: F01N 11/00,  
F02C 9/00, G05B 13/04

(IT). ROSI, Leonardo [IT/IT]; Via Assisi 23, I-06080 S.  
Egidio (IT).

(21) International Application Number:  
PCT/EP2003/014559

(74) Agents: DE GREGORI, Antonella et al.; Ing. Barzano  
& Zanardo Milano S.p.A., Via Borgonuovo, 10, I-20121  
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(30) Priority Data:  
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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): NUOVO  
PIGNONE HOLDING S.p.A. [IT/IT]; Via F. Matteucci,  
2, I-50127 Firenze (IT).

(72) Inventors; and

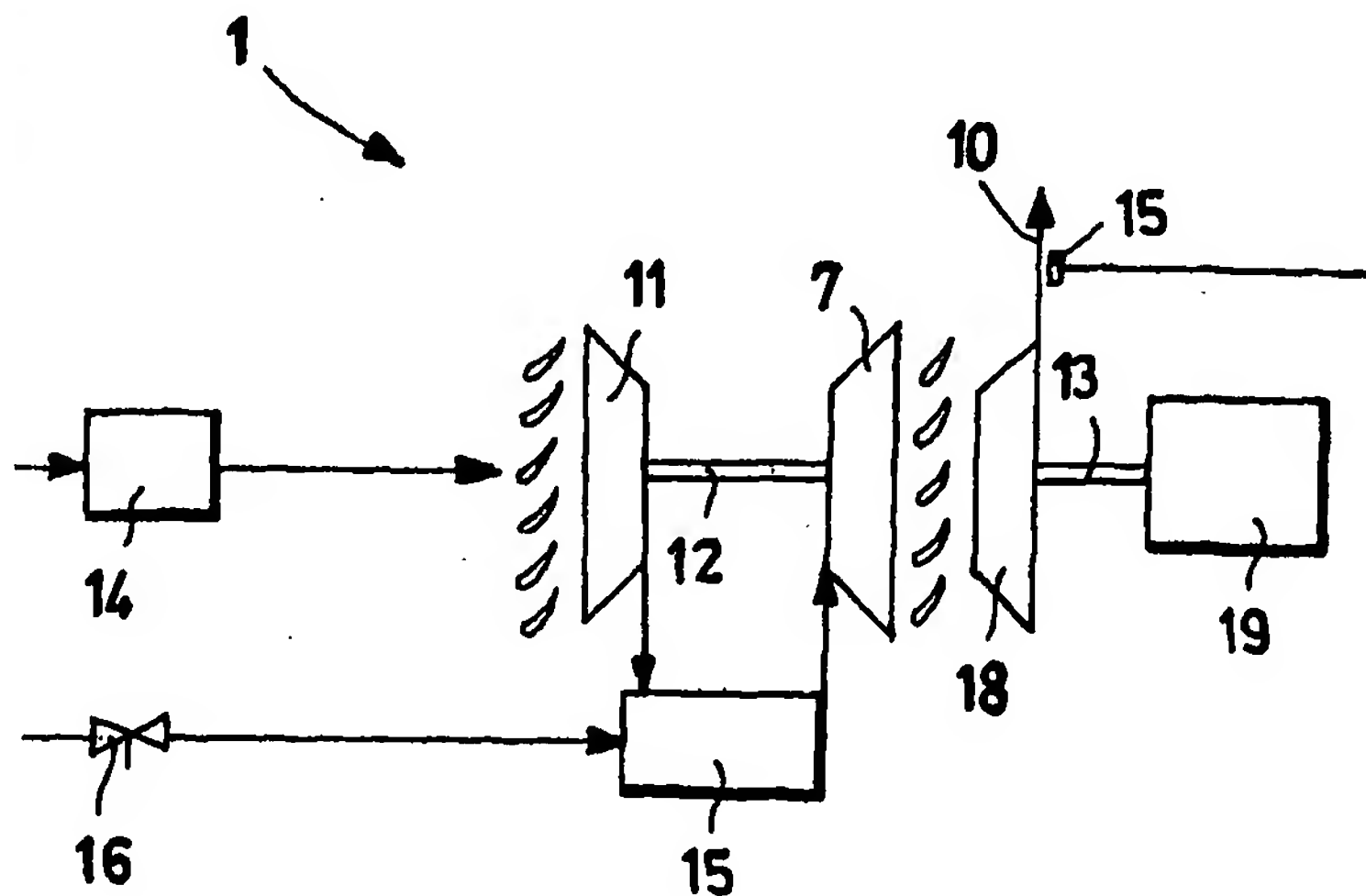
(75) Inventors/Applicants (*for US only*): MOCHI, Gianni  
[IT/IT]; Via Antonio Canova 77, I-50142 Firenze (IT).  
CASSI, Laura [IT/IT]; Via Niccolo da Tolentino 42,  
I-50141 Firenze (IT). BONCIANI, Luciano [IT/IT];  
Via Pratese 85/4, I-50145 Firenze (IT). CECCHERINI,  
Gianni [IT/IT]; Via 2 Giugno 82, I-50019 Sesto Fiorentino

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM FOR ESTIMATION AND CONTROL OF THE CONCENTRATIONS OF POLLUTANT GASES AT THE  
DISCHARGE OF A GAS TURBINE



(57) Abstract: System for estimation and control of the concentrations of pollutant gases at the discharge of a gas turbine comprising a unit (3) for acquisition of the data relating to the operating state of the turbine, the said data being detected by a control panel (2) of the turbine. The system also comprises a local processing unit (4), which processes the said data in association with the said acquisition unit and makes the data available for consultation by the latter.

WO 2004/057164 A1

SYSTEM FOR ESTIMATION AND CONTROL OF THE CONCENTRATIONS  
OF POLLUTANT GASES AT THE DISCHARGE OF A GAS TURBINE.

The present invention relates to a method and a system  
5 for estimation and control of the concentrations of  
pollutant gases at the discharge of a gas turbine.

In particular, the present invention relates to a  
method and a system for monitoring the emissions at the  
discharge of a gas turbine, without using continuous  
10 analysers of these emissions.

As is known, gas turbines are machines which consist of  
a compressor and a turbine with one or more stages,  
wherein these components are connected to one another  
by a rotary shaft, and wherein a combustion chamber is  
15 provided between the compressor and the turbine.

Air is supplied from the external environment to the  
compressor, in order to pressurise the latter.

By means of corresponding pipes, the pressurised air  
reaches the combustion chamber where, by means of one  
20 or more injectors which are supplied by a pressurised  
network, there is introduction of the fuel necessary to  
produce the combustion, which is designed to give rise  
to an increase in the temperature and enthalpy of the  
gas.

Via corresponding pipes, the high-temperature, high-pressure gas reaches the various stages of the turbine, which transforms the enthalpy of the gas into mechanical energy available to a user.

- 5 The monitoring systems of a known type control the emissions of the gas burnt in the turbine, by means of in-line analysers.

The applicant has observed that these analysers of the gas emissions require frequent calibration  
10 interventions, for example to be carried out by means of sample cylinders. In general, in each case it is necessary to carry out a periodic check of the compatibility of the results of the analyser, with the emissions actually measured, in order to keep the model  
15 compatible with the most recent states of the machine (long-term deterioration).

The applicant has created a system for estimation and control of the concentrations of pollutant gases at the discharge of a gas turbine, wherein, by means of  
20 analysis of a control panel of the turbine and calculation of the values detected by the panel, it is possible to deduce the emissions of the turbine (for example oxygen, nitric oxides, carbon monoxide). Thus, the system created does not need an in-line analyser

for the emissions, which are predicted by means of analysis of the conventional values which can be detected by an operating panel of the machine.

One aspect of the present invention relates to a method  
5 for estimation and control of the concentrations of pollutant gases at the discharge of a gas turbine, comprising the following steps:

- receipt of a plurality of signals corresponding to data relating to the operating state of the  
10 turbine;
- processing of this data; and
- evaluation of the emissions into the atmosphere from this turbine on the basis of the said data processed.

15 A further aspect of the present invention relates to a system for estimation and control of the concentrations of pollutant gases at the discharge of a gas turbine, characterised in that it comprises:

- an acquisition unit for the data relating to the  
20 operating state of the turbine, the said data being detected by a control panel of the turbine; and
- a local processing unit which processes the said data in association with the said acquisition unit

and makes the data available for consultation, in order to evaluate the emissions by the said turbine into the atmosphere, on the basis of the said data processed.

5 The characteristics and advantages of the method and the system according to the present invention will become clearer and more apparent from the following description, provided by way of non-limiting example, with reference to the attached figures, in which:

- 10     • figure 1 shows a schematic view of a gas turbine to which the monitoring system according to the present invention can be applied;
- figure 2 is a block diagram of the system according to the present invention for estimation  
15     and control of the concentrations of pollutant gases at the discharge of a gas turbine; and
- figures 3a-c are graphs which represent the emissions of the said turbine using the system according to the present invention, and the  
20     emissions detected by means of an in-line analyser of the emissions themselves.

With reference to the aforementioned figures, a gas turbine 1 with a double shaft comprises a compressor 11 which is rotated by a first shaft 12, which compresses

the air sucked in via a filter 14 and conveys it to a combustion chamber 15, into which the fuel is inserted by means of the regulating valve 16. The combustion gases expand in the direction of a turbine 7 which is  
5 keyed onto the said first shaft 12, such as to supply the rotary movement of the said compressor. Subsequently, the combustion gases expand in a power turbine 18 and are discharged into the atmosphere via the discharge 10. A sensor 15 to measure the  
10 temperature of the emissions is also shown.

The operation of the turbine is controlled by a control panel 2, which receives the values measured on the turbine, for example the speed of rotation of the shafts, the temperature of the emissions, and the  
15 temperature of the environment in which the turbine is operating, etc.

According to the present invention, by carrying out monitoring, an estimation, and predictive calculation on the basis of these values measured, it is possible  
20 to evaluate the emissions of the turbine at the discharge 10 (oxygen, nitric oxide, carbon monoxide).

The system according to the present invention for estimation and control of the concentrations of pollutant gases at the discharge of a gas turbine



comprises a unit 3 for acquisition of data from the control panel 2, comprising a data base to store the data, and a local processing unit 4 which processes the said data in association with the said acquisition unit 5 and makes the data available for consultation, for example by means of a corresponding display.

In addition, the system can also comprise a remote processing unit 5 which is connected by means of a conventional communication line, for example a LAN line 10 or an Internet connection, from which the data processed can be consulted, without needing to be in a location in the vicinity of the gas turbine. For example this remote unit can consult the data via the network by means of a common Internet consultation 15 programme (Internet browser).

In its interior the said acquisition unit comprises a calculator, which carries out the processing operations on the said values measured and stores them in a historic data base which takes into account all the 20 processing operations carried out.

The system operates as follows.

The values measured by the control panel can be for example the temperature at the discharge from the compressor, the temperature at the discharge from the

power turbine, the pressure of delivery to the compressor, the ambient temperature, the relative humidity of the environment, the molecular weight of the combustible gas, the compressibility of the  
5 combustible gas, the delivery by mass of the fuel, the delivery of the combustion air, the speed of rotation of the turbine, etc.

This data relating to the operating state of the turbine, measured by the control panel, can be  
10 processed by this calculator, in addition to some parameters and constants used in order to carry out refinement of the measurements, by interfacing the parameters themselves with the data measured.

The said calculator can also advantageously carry out a  
15 statistical calculation of the data stored in the historic data base for the operation of the turbine, for example by calculating the averages or calculating quadratic divergences from the averages.

The applicant has carried out tests analysing the  
20 aforementioned data, which show that the values calculated for the emissions are substantially similar to the values measured by means of an in-line analyser. In particular, the graphs in figures 3a-c show respectively the emissions of nitric oxides (figure

3a), oxygen (figure 3b) and carbon monoxide (figure 3c) .

## CLAIMS

1. Method for estimation and control of the concentrations of pollutant gases at the discharge of a gas turbine, comprising the following steps:
  - 5     • receipt of a plurality of signals corresponding to data relating to the operating state of the turbine;
  - processing of this data; and
  - evaluation of the emissions into the atmosphere
  - 10     from this turbine on the basis of the said data processed.
2. Method according to claim 1, additionally comprising the step of storage of the data processed in order to create a historic file of the emissions from
- 15 the turbine.
3. Method according to claim 1, wherein the said step of processing this data comprises the step of interfacing this data with refinement parameters.
4. System for estimation and control of the
- 20 concentrations of pollutant gases at the discharge of a gas turbine, characterised in that it comprises:
  - an acquisition unit (3) for the data relating to the operating state of the turbine, the said data

being detected by a control panel (2) of the turbine; and

- a local processing unit (4) which processes the said data in association with the said acquisition unit and makes the data available for consultation, in order to evaluate the emissions by the said turbine into the atmosphere, on the basis of the said data processed.

5. System according to claim 4, wherein the said local processing unit comprises a data base for storage of the data processed.

6. System according to claim 4, also comprising a remote processing unit (5) which is connected to the said local processing unit by means of a telecommunications line.

7. System according to claim 6, wherein the said telecommunications line is an Internet line.

8. System according to claim 7, wherein the said remote unit consults this data by means of an Internet consultation programme.

9. System according to claim 4, wherein the said local processing unit comprises a calculator which carries out the processing of this data.

10. System according to claim 9, wherein the said calculator carries out statistical calculation of the data stored in the historic data base for operation of the turbine.

1/3

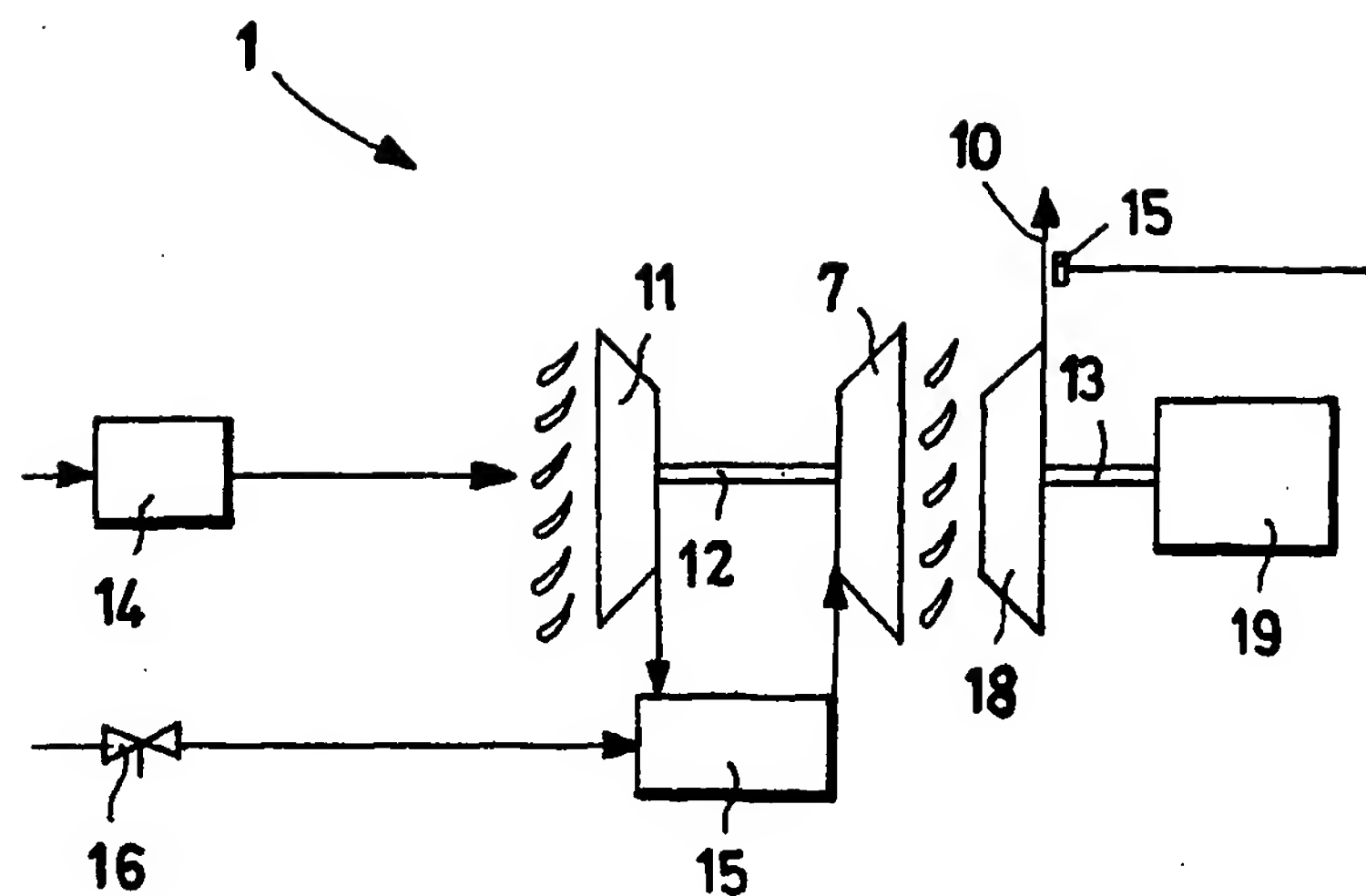


Fig.1

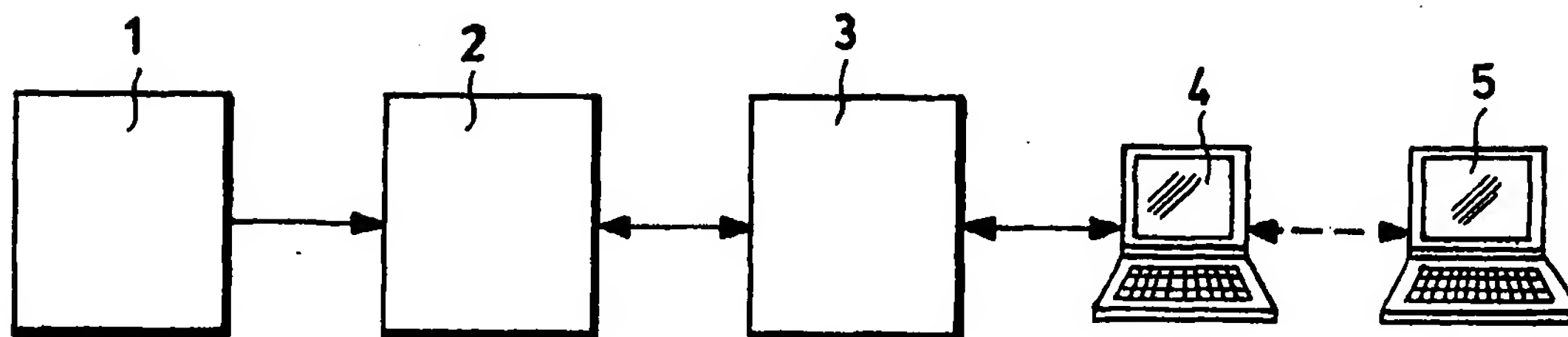


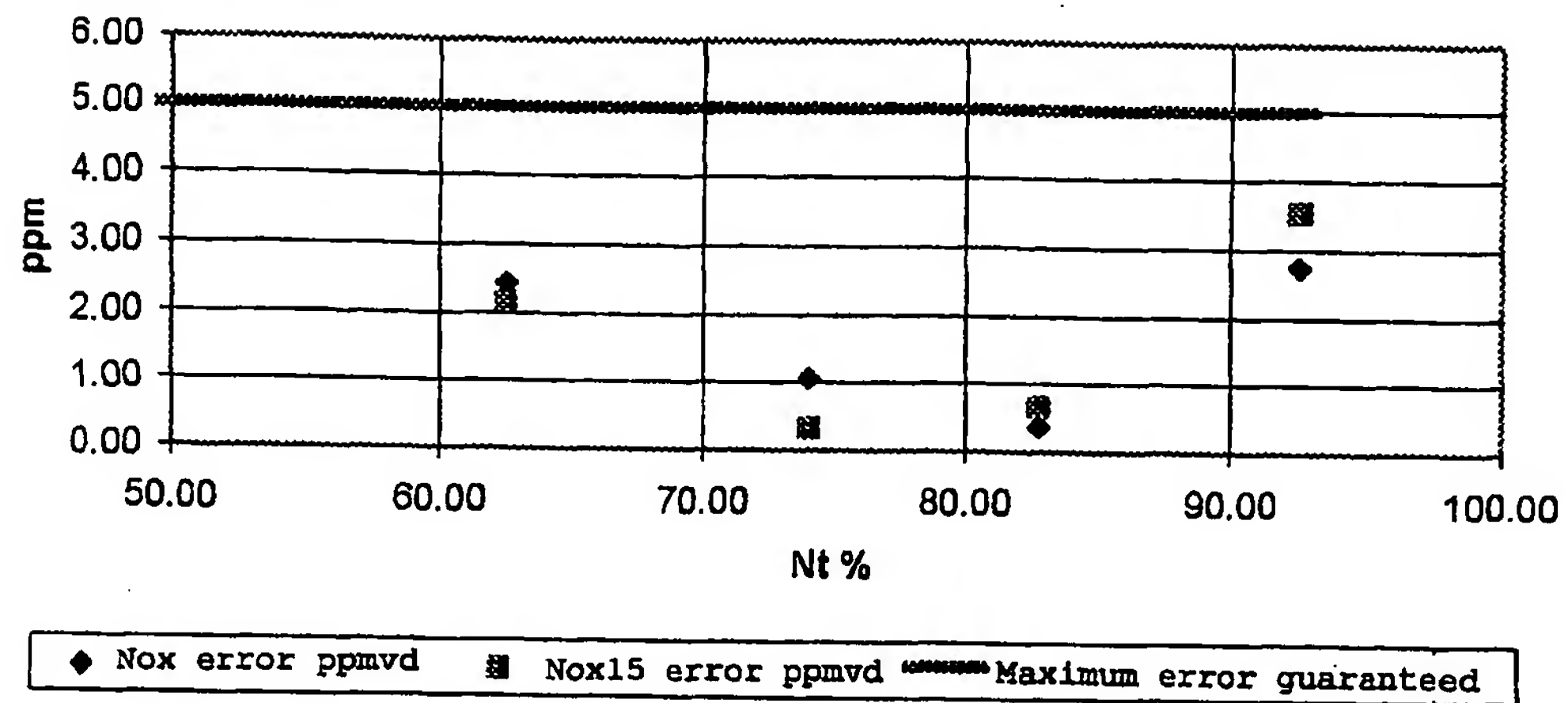
Fig.2



2/3

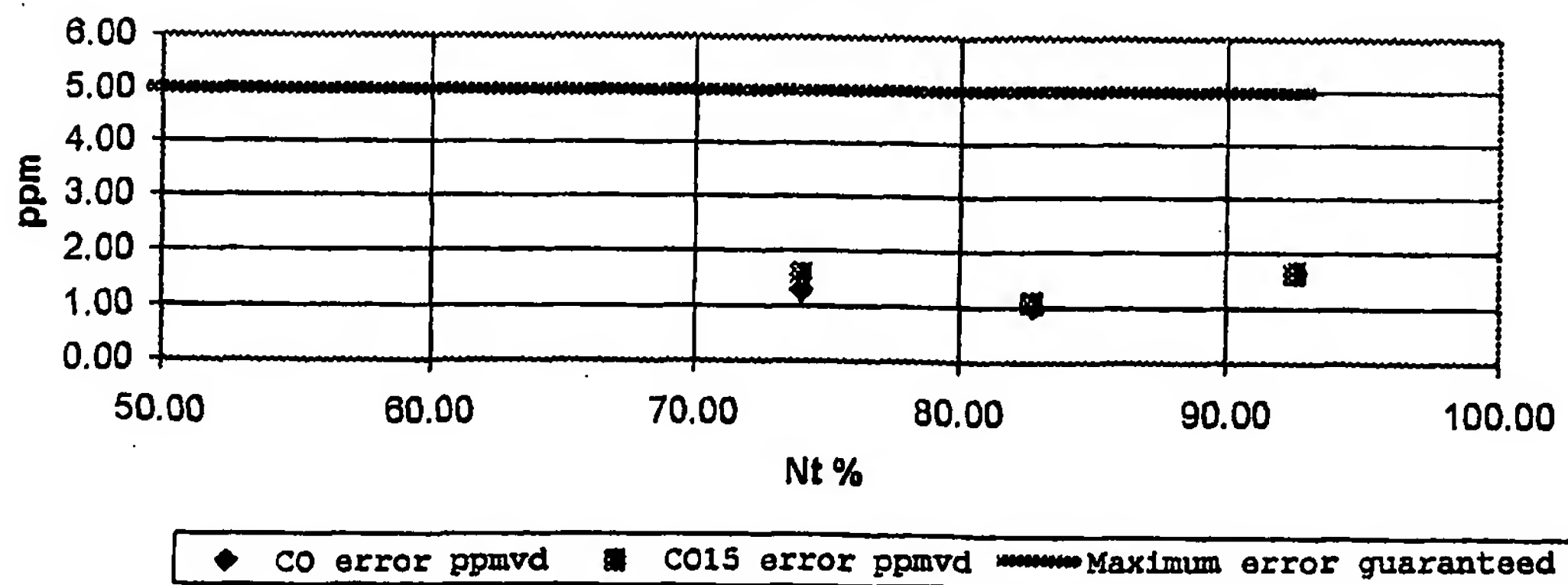
Nox error estimation

Unit: GE10 B2 DLN

Fig.3a

CO error estimation

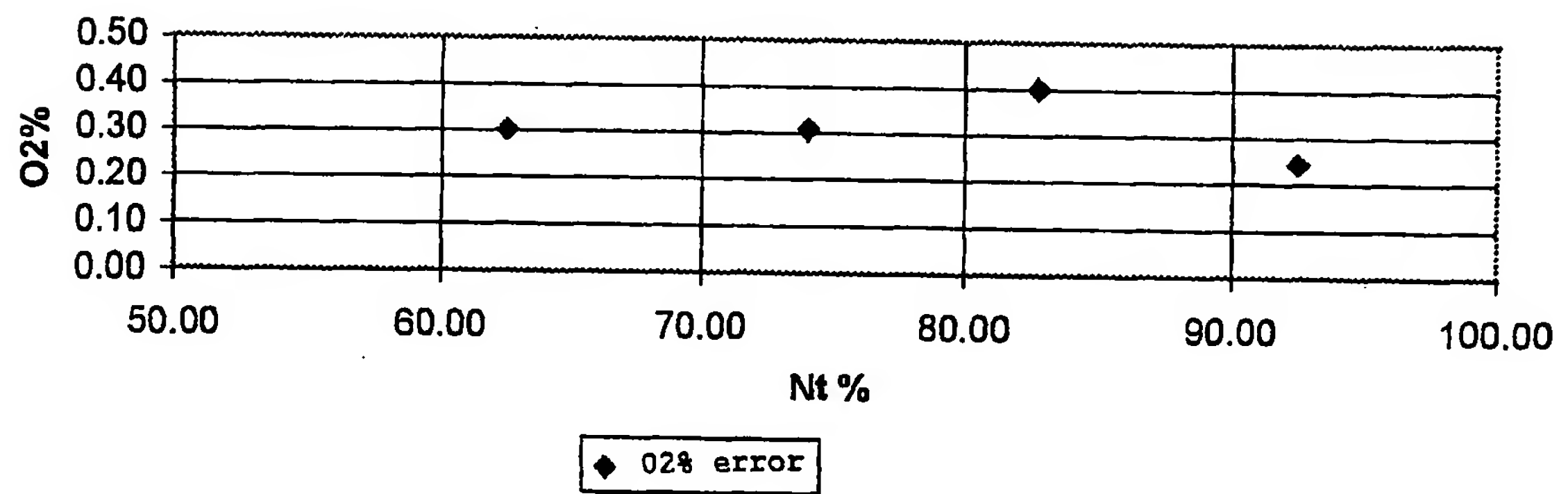
Unit: GE10 B2 DLN

Fig.3b

3/3

O<sub>2</sub>% error estimation

Unit: GE10 B2 DLN1

Fig.3c

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14559

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F01N11/00 F02C9/00 G05B13/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01N F02C G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 970 426 A (MANDEL STEPHEN ET AL) 19 October 1999 (1999-10-19) column 1, line 16 column 2, line 46 - line 51 column 2, line 56 - line 61 column 3, line 39 - line 60	1-5,9,10
X	US 2002/134083 A1 (CACCIATORE GARY G ET AL) 26 September 2002 (2002-09-26) paragraphs '0017!', '0037!' - '0039!', '0046!', '0047!'	1,4,6-9
A	US 5 033 010 A (LAWRENCE TREVOR ET AL) 16 July 1991 (1991-07-16) column 4, line 16 - line 26 column 4, line 34 - line 38 column 5, line 6 - line 10 column 5, line 63 - column 6, line 21	1-6,9,10

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

8 April 2004

Date of mailing of the international search report

19/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 851 epo nl,  
Fax (+31-70) 340-3018

Authorized officer

Angelucci, S

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14559

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5970426	A	19-10-1999	NONE	
US 2002134083	A1	26-09-2002	CA 2438735 A1 EP 1381762 A2 WO 02066974 A2 AU 9059101 A WO 0219653 A2	29-08-2002 21-01-2004 29-08-2002 13-03-2002 07-03-2002
US 5033010	A	16-07-1991	GB 2225125 A EP 0408684 A1 WO 9005959 A1	23-05-1990 23-01-1991 31-05-1990

**Joyce Klein**

**From:** Joyce Klein  
**Sent:** Monday, February 05, 2007 8:39 AM  
**To:** 'luciano.bonciani@ge.com'  
**Cc:** Michael Mallie; 'jim.mcginness@ps.ge.com'  
**Subject:** FW: GE Missing Parts

134645 - Sistema per la stima e la gestione delle concentrazioni di gas inquinanti allo scarico di una turbina a gas" (English Title: System For Estimation And Control Of The Concentrations Of Pollutant Gases At The Discharge Of A Gas Turbine)

Dear Luciano Bonciani,

Please sign the attached documents and fax or email them back to me as soon as possible.

Fax: 408-720-8383  
Email: joyce\_klein@bstz.com

Thank you,

Joyce Klein  
Assistant to Michael Mallie  
Blakely Sokoloff Taylor & Zafman  
1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040

2/7/2007

**Joyce Klein**

**From:** McGinness, Jim E (GE Infra, Energy) [jim.mcginness@ge.com]  
**Sent:** Monday, February 05, 2007 7:19 AM  
**To:** Joyce Klein; McIlwrath, Michael (GE Infra, Oil & Gas); Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE)  
**Cc:** Michael Mallie  
**Subject:** RE: GE Missing Parts

134645 - Sistema per la stima e la gestione delle concentrazioni di gas inquinanti allo scarico di una turbina a gas" (English Title: System For Estimation And Control Of The Concentrations Of Pollutant Gases At The Discharge Of A Gas Turbine)

Joyce,

Email the documents to Luciano Bonciani, cc'd on this message for execution and return to you.

Luciano Bonciani,

Please execute the document that Joyce Klein will send from Blakely, Sokoloff, Taylor & Zaffman firm. It is necessary to continue prosecuting your patent application above in the US.

Mike McIlwrath,

does O&G have a patent counsel for this firm to work with on O&G patent prosecution?

Jim McGinness

-----Original Message-----

**From:** Joyce Klein [mailto:Joyce\_Klein@bstz.com]  
**Sent:** Friday, February 02, 2007 6:06 PM  
**To:** McGinness, Jim E (GE Infra, Energy)  
**Cc:** Michael Mallie  
**Subject:** GE Missing Parts

Jim,

In the past, Patricia Yepez-Rutheny had been our contact in getting the documents out to the inventors for signature. Below are outstanding missing parts that we have not been able to complete and file to the Patent Office. We were just informed that Patricia has been out on maternity leave and unable to help us in achieving the signed documents. I have attached the documents for each of these cases for execution. Please let us know how you wish us to proceed.

134645 (6097.P066) missing parts due 2/27/2006 (missing signature from Luciano Bonciani)  
Corrected docs emailed 1/17/06

Thank you,

Joyce Klein  
Assistant to Michael Mallie

2/5/2007

**Joyce Klein**

**From:** McGinness, Jim E (GE Infra, Energy) [jim.mcginness@ge.com]  
**Sent:** Monday, February 05, 2007 7:25 AM  
**To:** Joyce Klein; Altenschulte, Markus (GE Infra, Energy); Gross-Thedieck, Sandra (GE Infra, Energy, Non-GE); Rieken, Stefan (GE Infra, Energy); Hoffmann, Philip J (GE, Corporate)  
**Cc:** Michael Mallie  
**Subject:** 133330 Switching off wind turbine during helicopter approach

Philip,  
 Is someone filling the role for Patricia Yopez-Rutheny, to support obtaining signatures on missing parts?

Joyce,  
 Markus Altenschulte is copied on this email, please send the documents directly to Markus for execution and return to you. Sandra should provide addresses for Andre Riesberg and Nicolas Delucis. Similarly, send docs to their provided addresses with instructions to sign and return to you.

Markus,  
 please execute the document Joyce will send, it is necessary to continue prosecuting of your subject patent application in the US.

Sandra,  
 Andre Riesberg and Nicolas Delucis apparently no longer with GE, please provide their addresses for Joyce Klein to mail them documents necessary for execution to maintain to prosecution of US patent applications.

Jim McGinness

-----Original Message-----

**From:** Joyce Klein [mailto:Joyce\_Klein@bstz.com]  
**Sent:** Friday, February 02, 2007 6:06 PM  
**To:** McGinness, Jim E (GE Infra, Energy)  
**Cc:** Michael Mallie  
**Subject:** GE Missing Parts

Reference:  
 133330 (6097.P074)  
 140864 (6097.P063)  
 134645 (6097.P066)

Jim,

In the past, Patricia Yopez-Rutheny had been our contact in getting the documents out to the inventors for signature. Below are outstanding missing parts that we have not been able to complete and file to the Patent Office. We were just informed that Patricia has been out on maternity leave and unable to help us in achieving the signed documents. I have attached the documents for each of these cases for execution. Please let us know how you wish us to proceed.

133330 (6097.P074) missing parts due **2/6/2007**  
 Documents need to be sent out to inventors Andre Riesberg and Markus Altenschulte, both in Germany

140864 (6097.P063) missing parts due **8/1/2006** (missing signature from Nicolas Delucis)  
 Several attempts have been made in locating Nicolas.  
 Original docs emailed 6/9/06

2/5/2007



134645 (6097.P066) missing parts due **2/27/2006** (missing signature from Luciano Bonciani)  
Corrected docs emailed 1/17/06

Thank you,

Joyce Klein  
Assistant to Michael Mallie

Thank you,

Joyce Klein  
Assistant to Michael Mallie

2/5/2007

**Joyce Klein**

**From:** Michael Mallie  
**Sent:** Tuesday, February 06, 2007 2:33 PM  
**To:** 'Manetta, Stephen J. (GE Infra, Oil & Gas)'; McGinness, Jim E (GE Infra, Energy)  
**Cc:** McIlwrath, Michael (GE Infra, Oil & Gas); Joyce Klein; Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE)  
**Subject:** RE: GE Missing Parts

Steve,

The application is currently abandoned because the inventor's refused to sign the forms. Once we get the signed forms, we will seek to revive the case.

Mike

**From:** Manetta, Stephen J. (GE Infra, Oil & Gas) [mailto:stefano.manetta@ge.com]  
**Sent:** Tuesday, February 06, 2007 12:36 AM  
**To:** McGinness, Jim E (GE Infra, Energy)  
**Cc:** Michael Mallie; McIlwrath, Michael (GE Infra, Oil & Gas); Joyce Klein; Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE)  
**Subject:** RE: GE Missing Parts

Jim,

I am the Patent Counsel for O&G so I can work with Blakeley on prosecution. I had received an email about this back in September and thought it had been resolved. I will follow up with the inventor on it. What date is 2/27? I thought the term to respond to the Missing Parts expired in 06. Did we file a petition (1.47)?

Thanks,  
 Steve

Stephen Manetta  
*Senior Counsel- Intellectual Property*

**GE Oil & Gas**  
 +39 055 423 3753 (Office)  
 +39 347 2112662 (Cell)  
 +39 055 423 2960 (Fax)

-----Original Message-----

**From:** McIlwrath, Michael (GE Infra, Oil & Gas)  
**Sent:** Tuesday, February 06, 2007 8:22 AM  
**To:** McGinness, Jim E (GE Infra, Energy); 'Joyce\_Klein@bstz.com'; Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE); Manetta, Stephen J. (GE Infra, Oil & Gas)  
**Cc:** 'michael\_mallie@bstz.com'

2/6/2007

Subject: Re: GE Missing Parts

Jim,  
Steve is our IP counsel, and can advise on whether we have retained someone already or need to.  
Mike

Michael McIlwrath  
Senior Counsel - Litigation  
GE Infrastructure - Oil & Gas  
Tel: +39 055 423 8445  
Mob: +39 348 287 3019

-----  
Sent from my BlackBerry Wireless Device

-----Original Message-----

From: McGinness, Jim E (GE Infra, Energy)  
To: 'Joyce Klein'; McIlwrath, Michael (GE Infra, Oil & Gas); Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE)  
CC: Michael Mallie  
Sent: Mon Feb 05 16:18:33 2007  
Subject: RE: GE Missing Parts

134645 - Sistema per la stima e la gestione delle concentrazioni di gas inquinanti allo scarico di una turbina a gas" (English Title: System For Estimation And Control Of The Concentrations Of Pollutant Gases At The Discharge Of A Gas Turbine)  
Joyce, Email the documents to Luciano Bonciani, cc'd on this message for execution and return to you.

Luciano Bonciani,  
Please execute the document that Joyce Klein will send from Blakely, Sokoloff, Taylor & Zaffman firm. It is necessary to continue prosecuting your patent application above in the US.

Mike McIlwrath,  
does O&G have a patent counsel for this firm to work with on O&G patent prosecution?

Jim McGinness

-----Original Message-----

From: Joyce Klein [mailto:Joyce\_Klein@bstz.com]  
Sent: Friday, February 02, 2007 6:06 PM  
To: McGinness, Jim E (GE Infra, Energy)  
Cc: Michael Mallie  
Subject: GE Missing Parts

Jim,

In the past, Patricia Yopez-Rutheny had been our contact in getting the documents out to the inventors for signature. Below are outstanding missing parts that we have not been able to complete and file to the Patent Office. We were just informed that Patricia has been out on maternity leave and unable to help us in achieving the signed documents. I have attached the documents for each of these cases for execution. Please let us know how you wish us to proceed.

2/6/2007

134645 (6097.P066) missing parts due 2/27/2006 (missing signature from Luciano Bonciani)

Corrected docs emailed 1/17/06

Thank you,

Joyce Klein

Assistant to Michael Mallie

Thank you,

Joyce Klein

Assistant to Michael Mallie

2/6/2007

## Joyce Klein

**From:** Joyce Klein  
**Sent:** Friday, April 14, 2006 1:31 PM  
**To:** 'Yepez-Rutheny, Patricia (GE, Corporate)'; Mochi, Gianni (GE Infra, Oil & Gas); Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE); Ceccherini, Gianni (GE Infra, Oil & Gas); Rosi, Leonardo (GE Infra, Oil & Gas)  
**Cc:** Meyer, Dietmar (GE Infra, Energy); Conklin, Mark A (GE, Corporate)  
**Subject:** RE: Outstanding documents Docket 134645/P066 (REMINDER)

Good Afternoon,

The address I have for Laura Cassi is not valid. I need her signature on the declaration and assignment. Does anyone have contact with Laura, such as her email address?

Thank you,

Joyce Klein  
Assistant to Michael Mallie  
Blakely Sokoloff Taylor & Zafman

**From:** Yepez-Rutheny, Patricia (GE, Corporate) [mailto:Patricia.Yepez-Rutheny@corporate.ge.com]  
**Sent:** Wednesday, April 05, 2006 12:35 PM  
**To:** Mochi, Gianni (GE Infra, Oil & Gas); Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE); Ceccherini, Gianni (GE Infra, Oil & Gas); Rosi, Leonardo (GE Infra, Oil & Gas)  
**Cc:** Meyer, Dietmar (GE Infra, Energy); Joyce Klein; Conklin, Mark A (GE, Corporate)  
**Subject:** FW: Outstanding documents Docket 134645/P066 (REMINDER)  
**Importance:** High

We refer to our e-mails sent on January 19, 2006 and March 7, 2006 attaching the declaration and Assignment. Please sign these documents as soon as possible and return them to Ms. Joyce Klein. We are attaching again the new Assignment and declaration. If any corrections need to be made please contact Ms. Klein.

Regards,

*Patricia Yepez-Rutheny*  
Paralegal  
General Electric Company  
Global Patent Operation  
187 Danbury Road, Suite 204  
Wilton, CT 06897

-----Original Message-----

**From:** Joyce Klein [mailto:Joyce\_Klein@bstz.com]  
**Sent:** Wednesday, April 05, 2006 1:03 PM  
**To:** Yepez-Rutheny, Patricia (GE, Corporate)  
**Cc:** Michael Mallie  
**Subject:** Outstanding documents

Patty,

Here is a list of documents that I am still waiting for and their respective due dates:

4/14/2006

**Joyce Klein**

---

**From:** Joyce Klein

**Sent:** Monday, May 01, 2006 1:27 PM

**To:** 'Yepez-Rutheny, Patricia (GE, Corporate)'

**Subject:** GE P066 (134645)

Hi Patty,

Just letting you know that I received a signed assignment from Laura Cassi. She did not send me the declaration, though.

Thank you,

Joyce Klein  
Assistant to Michael Mallie

5/1/2006

---

**From:** Yepez-Rutheny, Patricia (GE, Corporate) [mailto:Patricia.Yepez-Rutheny@corporate.ge.com]  
**Sent:** Wednesday, April 05, 2006 12:35 PM  
**To:** Mochi, Gianni (GE Infra, Oil & Gas); Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE); Ceccherini, Gianni (GE Infra, Oil & Gas); Rosi, Leonardo (GE Infra, Oil & Gas)  
**Cc:** Meyer, Dietmar (GE Infra, Energy); Joyce Klein; Conklin, Mark A (GE, Corporate)  
**Subject:** FW: Outstanding documents Docket 134645/P066 (REMINDER)  
**Importance:** High

We refer to our e-mails sent on January 19, 2006 and March 7, 2006 attaching the declaration and Assignment. Please sign these documents as soon as possible and return them to Ms. Joyce Klein. We are attaching again the new Assignment and declaration. If any corrections need to be made please contact Ms. Klein.

Regards,

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*Patricia Yepez-Rutheny*  
Paralegal  
General Electric Company  
Global Patent Operation  
187 Danbury Road, Suite 204  
Wilton, CT 06897

-----Original Message-----

**From:** Joyce Klein [mailto:Joyce\_Klein@bstz.com]  
**Sent:** Wednesday, April 05, 2006 1:03 PM  
**To:** Yepez-Rutheny, Patricia (GE, Corporate)  
**Cc:** Michael Mallie  
**Subject:** Outstanding documents

Patty,

Here is a list of documents that I am still waiting for and their respective due dates:

P066 (GE #134645)  
Assignment (new) signed by Gianni Mochi, need Laura Cassi, Luciano Bonciani, Gianni Ceccherini and Leonardi Rosi  
Declaration signed by no one, need all signatures  
Due Date: 4/27 with a 2-month extension

5/3/2006



## Joyce Klein

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**From:** Joyce Klein  
**Sent:** Wednesday, May 03, 2006 8:13 AM  
**To:** 'Cassi Laura (GEM - AdB Power)'  
**Subject:** RE: Outstanding documents Docket 134645/P066 (REMINDER)

Dear Laura,

I received the signed Assignment, but I did not receive the Declaration/Power of Attorney. The fax number that you may send your documents to is:  
408-720-8383.

Thank you,

Ms. Joyce Klein

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**From:** Cassi Laura (GEM - AdB Power) [mailto:laura.cassi@enel.it]  
**Sent:** Wednesday, May 03, 2006 6:39 AM  
**To:** Joyce Klein  
**Subject:** I: Outstanding documents Docket 134645/P066 (REMINDER)

Dear Mr Klein,  
I send you the documents you need twice, by traditinal mail. COuld you please let me know if everything is ok or not?  
I also tried to send a fax. COuld you confirm the fax number I have to use?  
Thanks in advance, and regards  
Laura Cassi

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-----Original Message-----

**From:** Joyce Klein [mailto:Joyce\_Klein@bstz.com]  
**Sent:** venerdì 14 aprile 2006 22.31  
**To:** Yepez-Rutheny, Patricia (GE, Corporate); Mochi, Gianni (GE Infra, Oil & Gas); Bonciani, Luciano (GE Infra, Oil & Gas, Non-GE); Ceccherini, Gianni (GE Infra, Oil & Gas); Rosi, Leonardo (GE Infra, Oil & Gas)  
**Cc:** Meyer, Dietmar (GE Infra, Energy); Conklin, Mark A (GE, Corporate)  
**Subject:** RE: Outstanding documents Docket 134645/P066 (REMINDER)

Good Afternoon,

The address I have for Laura Cassi is not valid. I need her signature on the declaration and assignment. Does anyone have contact with Laura, such as her email address?

Thank you,

Joyce Klein  
Assistant to Michael Mallie  
Blakely Sokoloff Taylor & Zafman

5/3/2006

**Joyce Klein**

**From:** Joyce Klein  
**Sent:** Wednesday, May 03, 2006 10:26 AM  
**To:** 'Yepez-Rutheny, Patricia (GE, Corporate)'  
**Subject:** GE 6097.P066 (134645)

Hi Patty,

FYI – I just received a signed fax for the declaration from Laura Cassi (yeah!). I am still waiting for the following:

Declaration – need Gianni Mochi, Luciano Bonciani, Gianni Ceccherini and Leonardi Rosi  
Assignment – need Luciano Bonciani, Gianni Ceccherini and Leonardi Rosi

Thank you,

Joyce Klein  
Assistant to Michael Mallie

Have:

Mochi  
Ceccherini  
Rosi  
Cassi

Need:

Luciano Bonciani

~~8/16/2006~~

FIRST Sent 5/3/2006

**Joyce Klein**

**From:** Joyce Klein  
**Sent:** Wednesday, August 16, 2006 3:06 PM  
**To:** 'Yepez-Rutheny, Patricia (GE, Corporate)'  
**Subject:** GE 6097.P066 (134645)

Hi Patty,

I am still waiting for signatures from Lucian Bonciani. All the other signatures are in. The missing parts were due 2/27/06. We are up against a 6 month extension on 8/27/06. Do you have any news for this one?

Thank you,

Joyce Klein  
Assistant to Michael Mallie

8/16/2006